



07/19/2018

07/19/2021

United States Department of Agriculture Animal and Plant Health Inspection Service 4700 River Road Riverdale, MD 20737

Permit to Move Live Plant Pests, Noxious Weeds, and Soil

Interstate Movement

Regulated by 7 CFR 330

This permit was generated electronically via the ePermits system

DATE ISSUED:

EXPIRES:

PERMITTEE NAME:Mark MassoudiPERMIT NUMBER:P526P-18-02774ORGANIZATION:Ag-BiotechAPPLICATION NUMBER:P526-180123-021

ADDRESS: 9701 Blue Larkspur Ln. FACILITY NUMBER: 4671

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Monterey, CA 93940

MAILING ADDRESS: 9701 Blue Larkspur Ln. HAND CARRY: Yes

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Monterey, CA 93940

PHONE: 831-324-0585

FAX:
9701 Blue Larkspur Ln., C, Monterey,

DESTINATION: 9701 Blue Larkspul Lil., CA 93940

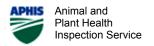
RELEASE: No

RELEASE:	No				
Under the conditions specified, this permit authorizes the following:					
Regulated Article	<u>Life</u> Stage(s)	Intended Use	Shipment Origins	Originally Collected	Culture Designation
Acidovorax avenae subsp	Any	Research - Growth		Originally Collected from	
citrulli		Chamber (lab included)	VI, Continental U.S.	Foreign and Domestic Locations	
Alternaria	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	
Alternaria dauci	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	
Alternaria porri	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	
Alternaria radicina	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	
Clavibacter michiganensi	sAny	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	
Cucumber green mottle mosaic virus	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations	

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Vickie Brewster	
Vickie Brewster	07/19/2018

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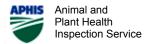




Curtobacterium flaccumfaciens	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Didymella bryoniae	Any	Research - Growth Chamber (lab		Originally Collected from Foreign and Domestic Locations
Fusarium oxysporum	Any	included) Research - Growth Chamber (lab		Originally Collected from Foreign and Domestic
Fusarium oxysporum f. sp. niveum	Any	included) Research - Growth Chamber (lab included)		Locations Originally Collected from Foreign and Domestic Locations
Leptosphaeria maculans	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Lettuce mosaic virus	Any	Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Melon necrotic spot virus	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pepino mosaic virus	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pepper mild mottle virus	Any	Research - Growth Chamber (lab		Originally Collected from Foreign and Domestic Locations
Phoma lingam	Any	included) Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Pseudomonas sp.	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae	Any	Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. apii	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. aptata	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. atrofaciens	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. coriandricola	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. lachrymans	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Pseudomonas syringae pv. maculicola	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations

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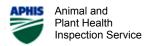




Pseudomonas syringae pv. phaseolicola	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Deaudomones syringes	Ann	Research - Growth	AS CII LII MD DD	Originally Collected from
Pseudomonas syringae pv. syringae	Any	Chamber (lab included)	VI, Continental U.S.	Foreign and Domestic Locations
Pseudomonas syringae pv. tomato	Any	Research - Growth Chamber (lab		Originally Collected from Foreign and Domestic
Septoria apiicola	Any	included) Research - Growth Chamber (lab	AS, GU, HI, MP, PR, VI, Continental U.S.	Locations Originally Collected from Foreign and Domestic
Squash mosaic virus	Any	included) Research - Growth Chamber (lab		Locations Originally Collected from Foreign and Domestic
Tobacco mosaic virus	Any	included) Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Locations Originally Collected from Foreign and Domestic Locations
Tomato mosaic virus	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Verticillium	Any	Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Verticillium dahliae	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas axonopodis pv. phaseoli	Any	Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Xanthomonas axonopodis pv. phaseoli-fuscans	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris	Any	Research - Growth Chamber (lab included)	AS, GU, HI, MP, PR, VI, Continental U.S.	Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. armoraciae	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. campestris	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. cucurbitae	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. euvesicatoria	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. raphani	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations
Xanthomonas campestris pv. vesicatoria	Any	Research - Growth Chamber (lab included)		Originally Collected from Foreign and Domestic Locations

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Xanthomonas campestris	Any	Research - Growth		Originally Collected from
pv. vitians		Chamber (lab included)	VI, Continental U.S.	Foreign and Domestic Locations
Xanthomonas	Any	Research - Growth	AS, GU, HI, MP, PR,	Originally Collected from
euvesicatoria	-	Chamber (lab		Foreign and Domestic
		included)		Locations
Xanthomonas gardneri	Any	Research - Growth	AS, GU, HI, MP, PR,	Originally Collected from
		Chamber (lab	VI, Continental U.S.	Foreign and Domestic
		included)		Locations
Xanthomonas hortorum	Any	Research - Growth		Originally Collected from
pv. carotae		Chamber (lab	VI, Continental U.S.	Foreign and Domestic
		included)		Locations

PERMIT GUIDANCE

- 1) This permit does not authorize importation or interstate movement of strains of genetically engineered regulated organisms (created by the use of recombinant DNA technology) or their use outside of a confined laboratory setting.
- 2) If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to http://www.aphis.usda.gov/import export/animals/animal import/animal imports an products.shtml
- 3) If a human pathogen is identified, please refer to the CDC Etiologic Agent Import Permit Program at http://www.cdc.gov/od/eaipp/
- 4) This permit does not fulfill the requirements of other federal or state regulatory authorities. Please contact the appropriate agencies, such as the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, the APHIS Biotechnology Regulatory Services, or your State's Department of Agriculture to ensure proper permitting.
- 5) If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date of this permit to ensure continued coverage. Permits requiring containment facilities may take a longer period of time to process.

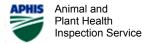
PERMIT CONDITIONS

USDA-APHIS issues this permit to Mark Massoudi with Agbiotech in Monterey, California. This permit authorizes the interstate movement of pure cultures of the listed regulated organisms or host material infected with the listed regulated organisms from various researchers within the United States, including its territories, for laboratory and growth chamber research in the APHIS approved facility #4671.

- 1. This permit is issued by the United States Department of Agriculture's Animal and Plant Health Inspection Service (APHIS). It conveys APHIS regulations and requirements for the material(s) listed on this permit. It does not reduce or eliminate your legal duty and responsibility to comply with all other applicable Federal and State regulatory requirements.
 - The permit number or a copy of the permit must accompany the shipment.

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- You must be an individual at least 18 years old, or legal entity such as partnership, corporation, association, or joint venture.
- You are legally responsible for complying with all permit requirements and permit conditions.
- If you violate any applicable laws associated with this permit, you may face substantial civil or criminal penalties. We may cancel all current permits and deny future permit applications.
- Without prior notice and during reasonable hours, authorized Federal and State Regulators must be allowed to inspect the conditions associated with the regulated materials/organisms authorized under this permit.

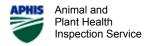
The permit holder must:

PPQ HEADQUARTER OFFICIAL VIA EPERMITS.

- maintain a valid PPQ526 permit so long as the regulated materials/organisms are alive or viable.
- not assign or transfer this permit to other persons without APHIS PPQ authorization,
- maintain an official permanent work assignment, residence, or affiliation at the address on this permit,
- notify the Pest Permit Staff as soon as possible of any change in the permit holder's work assignment, residence, or affiliation,
- notify the Pest Permit Staff of the receipt of unauthorized and/or misdirected shipments of regulated materials/organisms,
- adequately mitigate environmental impacts resulting from unauthorized release of regulated materials/organisms and notify the Pest Permit staff immediately if one occurs,
- notify the Pest Permit Staff if the facility is damaged/destroyed or if you wish to decommission the facility,
- destroy all regulated materials/organisms prior to departure from the organization unless other arrangements are confirmed by the Pest Permit Staff.

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING DATE

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- Notifications to the Pest Permit Staff must be made via 866-524-5421 or pest.permits@aphis.usda.gov within one business day of the event triggering a notification.
- 3. This permit does not authorize movement or use of plant pathogens listed in the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. If any organism listed as a Select Agent is identified from materials associated with this research, the permit holder is required to notify APHIS, Agriculture Select Agent Services (AgSAS) immediately by phone at 301-851-3300 option 3, and within seven (7) days submit APHIS/CDC Form 4A (Report of Identification of a Select Agent or Toxin in a Clinical or Diagnostic Laboratory) to APHIS, AgSAS; 4700 River Rd, Unit 2, Riverdale, MD 20737 (see instructions at: https://www.selectagents.gov/resources/APHIS-CDC_Form_4_Guidance_Document.pdf). Failure to comply with this requirement is a violation of the Agricultural Bioterrorism Protection Act of 2002. Plant pathogen select agents currently listed include: *Peronosclerospora philippinensis* (*Peronosclerospora sacchari*), *Conothyrium glycines* (*formerly Phoma glycinicola and Pyrenochaeta glycines*), *Ralstonia solanacearum*, *Rathayibacter toxicus*, *Sclerophthora rayssiae*, *Synchytrium endobioticum*, and *Xanthomonas oryzae*.
- 4. All persons working with the listed regulated materials/organisms must be informed of these permit conditions. Anyone working with these materials/organisms must agree to and sign/initial these conditions before beginning work. These signed conditions do not need to be submitted to USDA/APHIS but must be readily accessible and made available to Federal and State regulators upon request.
 - Note: these conditions may be copied and stored electronically for electronic signature and initialing provided that the permit number, authorized materials/organisms and life stages, release locations if applicable, and authorization statement all appear on the document with the permit number. Signing these conditions only indicates that the person working under this permit has read them; the permit holder is the sole responsible party under this permit.
- 5. Field-collected samples of infected plant material must be bare-root or washed free of soil prior to shipment to the permit holder.
 Plant samples deliberately inoculated with these organisms in a controlled environment such as a laboratory, growth chamber, or greenhouse that have been grown in sterilized soil or soilless mix may be shipped to the permit holder with attached soil or growing media.
- 6. All packages for transport must minimally consist of both inner/primary and outer/secondary packages securely sealed so that both are effective barriers to escape or unauthorized dissemination of the listed materials/organisms. The inner/primary package(s) will contain all regulated materials/organisms and must be cushioned and sealed in such a way that it remains sealed during shock, impact, and pressure changes that may occur. The outer/secondary shipping container must be rigid and strong enough to withstand typical shipping conditions (dropping, stacking, impact from other freight, etc.) without opening.

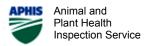
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- 7. Upon receipt, all packages must be opened within a Class II or III biosafety cabinet in the approved containment facility identified above to prevent the potential dissemination of the package contents. Cultures must be in a sealed container during transport to or within the permit holder's assigned research facilities.
- 8. All research activities, plant inoculations and subsequent disease development must occur within the APHIS approved Containment Facility identified above that has been inspected and found adequate for containment of the organisms received under this permit. Access to this facility must be restricted to authorized personnel.
- 9. This permit authorizes plant inoculations in the laboratory and growth chamber only. Greenhouse research is not authorized.
- 10. Research with Cucumber Green Mottle Mosaic Virus is restricted to the laboratory only. Plant inoculations are not authorized with Cucumber Green Mottle Mosaic Virus.
- 11. Vector transmission is not permitted under this authorization. Only mechanical inoculation of plants is permitted.
- 12. Measures to control potential insect vectors (e.g. black lights, yellow sticky boards, insecticides) must be in place.
- 13. Standard Operating Procedures (SOPs) must be filed with, and approved by, the APHIS PPQ Pest Permit Staff at: email: pest.permits@aphis.usda.gov; phone: 866-524-5421; fax: 301-734-8700; address: 4700 River Road, Unit 133, Riverdale, MD 20737. All contact information must be kept current and the SOPs must be dated. If requirements in the permit conditions are more restrictive than the SOPs, permit conditions take precedence. APHIS PPQ must approve any changes to the SOPs before implementation.
 - A list of all persons with access to the containment facility must be maintained and available upon request by Federal or State Regulatory Officials.
- 14. Modifications to the containment facility or any changes that affect the containment of the regulated materials/organisms must be approved by APHIS prior to making changes. Please contact the Pest Permit Staff (email: pest.permits@aphis.usda.gov; phone: 866-524-5421; address: 4700 River Rd., Unit 133, Riverdale, MD 20737; Fax: 301-734-8700).
- 15. Records must be kept of all organisms maintained under this permit. Minimally the record will consist of the name of the organism identified to the lowest taxon possible, the country, or US state/territory, where each isolate was collected, and the date the isolate was received. These records must be made available to Federal and State regulators upon request.
- 16. When not working with the regulated materials/organisms, you must store and/or maintain them within the APHIS approved containment facility identified above. All stored regulated materials/organisms must be kept in a locked area with access limited to authorized personnel.

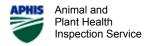
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17. DEVITALIZATION AND WASTE DISPOSAL

All regulated materials/organisms and all items coming in direct contact or exposed to the regulated materials/organisms must be sterilized/sanitized/decontaminated prior to removal from the authorized containment facility. This includes all items from shipping, culturing, care, and maintenance of these regulated materials/organisms. This requirement includes but is not necessarily limited to: packaging directly exposed to the regulated materials/organisms, substrates (culture media, soil, plant materials (food materials or host plants)), leftover/unused/unneeded live cultures, and dead specimens/cultures unless specified otherwise in the permit.

All waste materials must be treated by one of the follow methods prior to disposal:

Use any of the following, either alone or in combination: 1) autoclaved (see protocol below), 2) disposed of off-site by a facility holding a valid PPQ compliance agreement (organisms and/or contaminated waste must be stored in sealed containers prior to pick up by this company), 3) incinerated, 4) immersed in 5 percent sodium hypochlorite (household bleach from the bottle is 5 percent) for at least 20 minutes, or 5) immersed in 70 percent alcohol for at least 30 minutes. Treated waste will be double bagged prior to disposal.

Other sterilization methods are only allowed with prior written agreement from the USDA/APHIS PPQ Pest Permit Staff.

Any equipment, supplies, tools, secondary shipping containers, packing materials (e.g., ice packs), etc. must be sterilized/sanitized/decontaminated prior to reuse, disposal, or removal from containment.

If using an autoclave the following protocol must be used:

- a. Waste must be autoclaved at 121 Celsius (250 Fahrenheit) for a minimum of 30 minutes at 15
- b. Autoclave tape or other indicators must be placed on each load prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
- c. The autoclave must be calibrated according to the manufacturer's instructions annually and a written record must be maintained.
- d. Every 3 months, you must use a commercially available biological indicator kit that uses bacterial spores of Geobacillus stearothermophilus that are rendered unviable at 121 Celsius (250 Fahrenheit). You must follow the manufacturer's instructions. If any growth is observed, you must have the autoclave serviced and retested.
- 18. There is to be no further movement or distribution of the listed regulated materials/organisms within the United States and its territories unless the recipient holds, or is named as a responsible party on a valid PPQ526 permit for receipt of such materials/organisms.

END OF PERMIT CONDITIONS

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